

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Michael I. Catherwood  
Serial No.: 09/870,649  
Filing Date: June 1, 2001  
Group Art Unit: 2124  
Examiner: Chuong D. Ngo  
Title: *Euclidean Distance Instructions*

Mail Stop Issue Fee  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I hereby certify that this Information Disclosure Statement is being deposited with the United States Postal Service as Express Mail EV351285472US addressed to: Mail Stop Issue Fee, Commissioner of Patents, Alexandria, VA 22313-1450, on the date shown below.

  
Angela Loding

12/29/04

Date

Dear Sir:

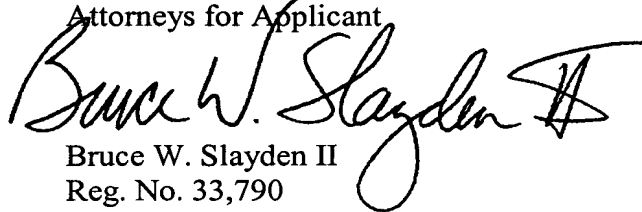
**INFORMATION DISCLOSURE STATEMENT**

Applicant respectfully requests, pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified application. Copies of the references are enclosed for the convenience of the Examiner. Furthermore, pursuant to 37 C.F.R. §§1.97 (g) and (h), no representation is made that these references are material to the patentability of the present application.

The Commissioner is hereby authorized to charge the appropriate fees to Deposit Account No. 50-2148 of Baker Botts L.L.P. in order to effectuate this filing.

Respectfully submitted,

BAKER BOTTS L.L.P.  
Attorneys for Applicant

A handwritten signature in black ink, reading "Bruce W. Slayden II". The signature is stylized with a large, sweeping "B" and a distinct "II" at the end.

Bruce W. Slayden II  
Reg. No. 33,790

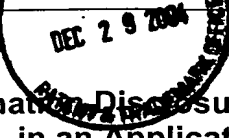
Date: December 29, 2004

Correspondence Address:

Customer Number **31625**

512.322.2606

512.322.8306 (Fax)

|  |  |                 |                |              |
|--|--|-----------------|----------------|--------------|
| PTO-1449   |  | Application No. | Applicant(s)   |              |
|  |  | 09/870,649      | Catherwood     |              |
| <b>Information Disclosure Citation<br/>in an Application</b> |  | Docket Number   | Group Art Unit | Filing Date  |
|  |  | 068354.1440     | 2124           | June 1, 2004 |

## U.S. PATENT DOCUMENTS

|  |    | DOCUMENT NO. | DATE     | NAME            | CLASS | SUBCLASS | FILING DATE |
|--|----|--------------|----------|-----------------|-------|----------|-------------|
|  | A. | 6728856      | 4/27/04  | Grosbach et al. | 711   | 202      | 6/1/01      |
|  | B. | 6282637      | 8/28/01  | Chan et al.     | 712   | 223      | 12/2/98     |
|  | C. | 6055619      | 4/25/00  | North et al.    | 713   | 36       | 2/7/97      |
|  | D. | 5974549      | 10/26/99 | Golan           | 713   | 200      | 3/27/97     |
|  | E. |              |          |                 |       |          |             |
|  | F. |              |          |                 |       |          |             |
|  | G. |              |          |                 |       |          |             |
|  | H. |              |          |                 |       |          |             |
|  | I. |              |          |                 |       |          |             |
|  | J. |              |          |                 |       |          |             |
|  | K. |              |          |                 |       |          |             |
|  | L. |              |          |                 |       |          |             |
|  | M. |              |          |                 |       |          |             |
|  | N. |              |          |                 |       |          |             |
|  | O. |              |          |                 |       |          |             |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
|--|----|--------------|------|---------|-------|----------|-------------|----|
|  |    |              |      |         |       |          | YES         | NO |
|  | P. |              |      |         |       |          |             |    |
|  | Q. |              |      |         |       |          |             |    |
|  | R. |              |      |         |       |          |             |    |
|  | S. |              |      |         |       |          |             |    |
|  | T. |              |      |         |       |          |             |    |
|  | U. |              |      |         |       |          |             |    |

## NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)

|  |    |  |  |  |  |  |      |
|--|----|--|--|--|--|--|------|
|  | V. | SPARC, International, Inc., "The SPARC Architecture Manual", Version 8, pp 1-303 |  |  |  |  | 1992 |
|  | W. |  |  |  |  |  |      |
|  | X. |  |  |  |  |  |      |
|  | Y. |  |  |  |  |  |      |
|  | Z. |  |  |  |  |  |      |

|          |                 |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**COPY**

In re Application of: Michael I. Catherwood  
Serial No.: 09/870,649  
Date Filed: June 1, 2001  
Group Art Unit: 2124  
Examiner: Chuong D. Ngo  
Title: *Euclidean Distance Instructions*

**COPY**

Notice of Allowance Mailed: November 18, 2004  
Issue Fee Due: February 18, 2005

**MAIL STOP – ISSUE FEE**

**Please forward to Examiner Chuong D. Ngo  
at Group Art Unit 2124 ASAP for consideration.**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail No. EV351287147US addressed to: Mail Stop – Issue Fee, Commissioner of Patents, Office, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

*Angela Loding*  
Angela Loding  
11-29-04  
Date

Dear Sir:

**REQUEST FOR RE-CONSIDERATION OF INFORMATION DISCLOSURE**  
**STATEMENT SUBMITTED BEFORE MAILING OF THE NOTICE OF**  
**ALLOWANCE**

For reasons set forth below, it is respectfully requested that the PTO file for this application be promptly forwarded to Examiner Chuong D. Ngo for consideration of the following:

**Information Disclosure Statement**

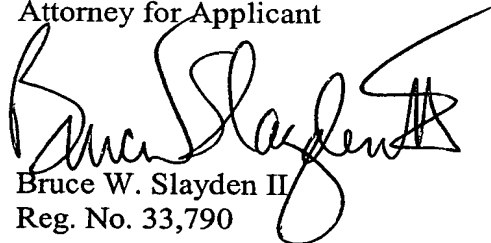
Applicant encloses a copy of the Information Disclosure Statement and PTO Form 1449 as filed on September 10, 2004, and respectfully requests that the Examiner re-consider the references cited on the PTO Form 1449. Pursuant to the telephone conversation with Examiner on November 29, 2004, Applicant has reviewed the PTO Form 1449 previously filed on September 10, 2004, and crossed out any references that were previously considered by the Examiner. Hard copies of the references are also enclosed as requested by the Examiner. Applicant respectfully requests reconsideration of the references cited on the enclosed PTO Form 1449 prior to the Issue Fee due date of **February 18, 2005**.

Applicant believes there are no fees due, however, the Commissioner is hereby authorized to charge any fees to Deposit Account No. 50-2148 of Baker Botts L.L.P.

If there are any matters concerning this Application that may be cleared up in a telephone conversation, please contact Applicant's attorney at 512.322.2606.

Respectfully submitted,

BAKER BOTTS L.L.P.  
Attorney for Applicant

  
Bruce W. Slayden II  
Reg. No. 33,790

Date: Nov. 29 '04

**SEND CORRESPONDENCE TO:**

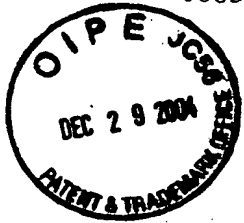
Baker Botts L.L.P.

**CUSTOMER NO. 31625**

512.322.2606

512.322.8306 (fax)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re Application of: Catherwood  
Serial No.: 09/870,649  
Filing Date: June 1, 2001  
Group Art Unit: 2124  
Examiner: Chuong D. Ngo  
Title: *Euclidean Distance Instructions*

COPY

Mail Stop Amendment  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I hereby certify that this Information Disclosure Statement is being deposited with the United States Postal Service as Express Mail EV351290693US addressed to: Mail Stop Amendment, Commissioner of Patents, Alexandria, VA 22313-1450, on the date shown below.

*Angela Loding*  
Angela Loding  
9-10-04  
Date

Dear Sir:

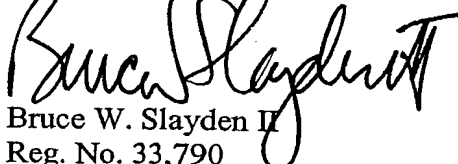
**INFORMATION DISCLOSURE STATEMENT**

Applicant respectfully requests, pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified application. Copies of the references are enclosed on the attached CD-Rom for the convenience of the Examiner. Furthermore, pursuant to 37 C.F.R. §§1.97 (g) and (h), no representation is made that these references are material to the patentability of the present application.

Applicant encloses a check in the amount of \$180.00, the Commissioner is hereby authorized to charge any additional fees or credit any overpayments to Deposit Account No. 50-2148 of Baker Botts L.L.P.

Respectfully submitted,

BAKER BOTTS L.L.P.  
Attorneys for Applicant

  
Bruce W. Slayden II  
Reg. No. 33,790

Date: 9/10/2004

Correspondence Address:

Customer Number **31625**

512.322.2606

512.322.8306 (Fax)

PTO-1449

Application No.

Applicant(s)

**Information Disclosure Citation  
in an Application**

09/870,649

Catherwood

**COPY**

Docket Number

Group Art Unit

Filing Date

068354.1440

2124

June 1, 2001

DEC 29 2004

## U.S. PATENT DOCUMENTS

|    | DOCUMENT NO.       | DATE                | NAME                  | CLASS          | SUBCLASS         | FILING DATE        |
|----|--------------------|---------------------|-----------------------|----------------|------------------|--------------------|
| A. | 3771146            | 11/6/73             | Cotton et al.         | 710            | 260              | 1/22/73            |
| B. | <del>3781840</del> | <del>12/25/73</del> | <del>Downing</del>    | <del>340</del> | <del>172.5</del> | <del>4/26/72</del> |
| C. | 3886524            | 5/27/75             | Appelt                | 710            | 110              | 10/18/73           |
| D. | 4025771            | 5/24/77             | Lynch et al.          | 708            | 521              | 3/25/74            |
| E. | 4074353            | 2/14/78             | Woods et al.          | 710            | 264              | 3/24/76            |
| F. | 4090250            | 5/16/78             | Carlson et al.        | 712            | 234              | 9/30/76            |
| G. | 4323981            | 4/6/82              | Nakamura              | 364            | 749              | 10/23/78           |
| H. | 4379338            | 4/5/83              | Nishitani et al.      | 708            | 552              | 11/21/80           |
| I. | <del>4208244</del> | <del>8/9/83</del>   | <del>Chu et al.</del> | <del>364</del> | <del>200</del>   | <del>5/7/80</del>  |
| J. | 4408274            | 10/4/83             | Wheatley et al.       | 364            | 200              | 9/29/80            |
| K. | 4451885            | 5/29/84             | Gerson et al.         | 708            | 200              | 3/1/82             |
| L. | <del>4472788</del> | <del>9/16/84</del>  | <del>Yamazaki</del>   | <del>364</del> | <del>000</del>   | <del>8/27/81</del> |
| M. | <del>4481576</del> | <del>11/6/84</del>  | <del>Bicknell</del>   | <del>364</del> | <del>200</del>   | <del>3/19/82</del> |
| N. | <del>4488252</del> | <del>12/11/84</del> | <del>Vassar</del>     | <del>364</del> | <del>748</del>   | <del>2/22/82</del> |
| O. | 4511990            | 4/16/85             | Hagiwara et al.       | 364            | 748              | 10/15/81           |

## FOREIGN PATENT DOCUMENTS

|    | DOCUMENT NO. | DATE     | COUNTRY         | CLASS | SUBCLASS | TRANSLATION |    |
|----|--------------|----------|-----------------|-------|----------|-------------|----|
|    |              |          |                 |       |          | YES         | NO |
| P. | 01037424 A   | 2/1989   | JP (w/abstract) | H03M  | 001/82   |             | X  |
| Q. | 0 554 917 A2 | 8/11/93  | EP              | G06F  | 9/26     | X           |    |
| R. | 96/11443     | 4/18/96  | WO              | G06F  | 15/78    | X           |    |
| S. | 0 855 643 A1 | 07/29/98 | EP              | G06F  | 9/30     | X           |    |
| T. | 0 992 888    | 12/04/00 | EP              | G06F  | 9/32     | X           |    |
| U. | 0 992 889    | 12/14/00 | EP              | G06F  | 9/32     | X           |    |

## NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)

|    |  |  |  |  |  |          |
|----|--|--|--|--|--|----------|
| V. | Moon B I et al.: "A 32-bit RISC Microprocessor with DSP Functionality: Rapid Prototyping" IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, Institute of Electronics Information and Comm. Eng. Tokyo, JP, vol. E84-A no. 5, pages 1339-1347, XP001060025 ISSN: 0916-8508 |  |  |  |  | 5/2001   |
| W. | Turley J: "Balancing Conflicting Requirements When Mixing RISC, DSPs" Computer Design, Pennwell Publ. Littleton, Massachusetts, US, vol. 37, no. 10, pages 46, 48, 50-53, XP000860706 ISSN: 0010-4566  |  |  |  |  | 10/1998  |
| X. | Levy M: "Microprocessor and DSP Technologies Unite for Embedded Applications" EDN Electrical Design News, Cahners Publishing Co., Newtown Massachusetts, US, no. Europe, pages 73-74, 76, 78-80, XP000779113 ISSN: 0012-7515   |  |  |  |  | 3/2/1998 |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



PTO-1449

Application No.

Applicant(s)

**Information Disclosure Citation  
in an Application**

09/870,649

Catherwood

Docket Number

Group Art Unit

Filing Date

068354.1440

2124

June 1, 2001

**U.S. PATENT DOCUMENTS**

|    |  | DOCUMENT NO. | DATE     | NAME               | CLASS | SUBCLASS | FILING DATE |
|----|--|--------------|----------|--------------------|-------|----------|-------------|
| A. |  | 4556938      | 12/3/85  | Parker et al.      | 364   | 200      | 2/22/82     |
| B. |  | 4626988      | 12/2/86  | George             | 364   | 200      | 3/7/83      |
| C. |  | 4700248      | 3/8/88   | Watanabe et al.    | 364   | 200      | 8/30/84     |
| D. |  | 4742479      | 5/3/88   | Kloker et al.      | 364   | 746      | 3/25/85     |
| E. |  | 4768149      | 8/30/88  | Konopik et al.     | 364   | 200      | 8/29/85     |
| F. |  | 4779191      | 10/18/88 | Greenblatt         | 711   | 2        | 4/12/85     |
| G. |  | 4782457      | 11/1/88  | Cline              | 364   | 715.04   | 8/18/86     |
| H. |  | 4800524      | 1/24/89  | Roesgen            | 364   | 900      | 12/2/87     |
| I. |  | 4807172      | 2/24/89  | Nukiyama           | 364   | 715.08   | 2/17/87     |
| J. |  | 4829420      | 5/9/89   | Stahle             | 364   | 200      | 8/29/87     |
| K. |  | 4829400      | 5/9/89   | Ito                | 364   | 715.08   | 10/14/87    |
| L. |  | 4839046      | 6/13/89  | Hirose et al.      | 364   | 748      | 3/12/86     |
| M. |  | 4841468      | 6/20/89  | Miller et al.      | 708   | 625      | 3/20/87     |
| N. |  | 4872128      | 10/3/89  | Shimizu            | 364   | 715.08   | 2/17/88     |
| O. |  | 4882701      | 11/24/89 | Ishii              | 364   | 900      | 9/23/88     |
| P. |  | 4926371      | 5/15/90  | Vassiliadis et al. | 708   | 628      | 12/28/88    |
| Q. |  | 4941120      | 7/10/90  | Brown et al.       | 364   | 748      | 4/17/89     |

**FOREIGN PATENT DOCUMENTS**

|    |  | DOCUMENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
|----|--|--------------|------|---------|-------|----------|-------------|----|
|    |  |              |      |         |       |          | YES         | NO |
| R. |  |              |      |         |       |          |             |    |
| S. |  |              |      |         |       |          |             |    |

**NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)**

|    |  |                    |
|----|--|--------------------|
| T. | Intel, Pentium Processor Family Developer's Manual, Volume 3: Architecture and Programming Manual, , Pages 3-1, 3-2, 3-15, 14-1 to 14-30, 18-7, and 25-289 to 25-292 | 1995               |
| U. | Intel, Embedded Intel486 Processor Family Developer's Manual, pgs. 2-2, 3-17, 3-37, 4-5, 4-6, 10-1 to 10-12, 12-1 to 12-10   | 10/1997            |
| V. | Moore, M "Z80 Family Interrupt Structure". Barleywood (online), retrieved from the Internet<br><URL: http://www.gaby.de/z80/1653.htm>                                | 1997               |
| W. | PCT Search Report based on PCT/US02/16706, 6 pages   | Mailed<br>9/27/02  |
| X. | PCT Search Report based on PCT/US02/16705, 7 pages   | Mailed<br>9/9/02   |
| Y. | PCT Search Report based on PCT/US02/16921, 4 pages   | Mailed<br>10/18/02 |

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## U.S. PATENT DOCUMENTS

|    | DOCUMENT NO. | DATE     | NAME               | CLASS | SUBCLASS | FILING DATE |
|----|--------------|----------|--------------------|-------|----------|-------------|
|    | 4943940      | 7/24/90  | New                | 364   | 740      | 9/27/84     |
| B. | 4950776      | 9/25/90  | Deerfield et al.   | 364   | 200      | 12/5/88     |
| C. | 4077533      | 12/11/90 | Miyabayashi et al. | 364   | 720      | 10/10/89    |
| D. | 4984213      | 1/8/91   | Abdoo et al.       | 365   | 230.03   | 2/24/89     |
| E. | 5007020      | 4/9/91   | Inskip             | 364   | 900      | 5/7/90      |
| F. | 5012441      | 4/30/91  | Retter             | 364   | 900      | 11/24/86    |
| G. | 5032980      | 7/16/91  | Patrak et al.      | 364   | 200      | 9/22/89     |
| H. | 5034887      | 7/23/91  | Yasul et al.       | 364   | 200      | 7/27/90     |
| I. | 5038310      | 8/6/91   | Akagiri et al.     | 364   | 715.04   | 4/19/90     |
| J. | 5040178      | 8/13/91  | Lindsay et al.     | 371   | 21.5     | 5/12/89     |
| K. | 5056004      | 10/8/91  | Ohde et al.        | 264   | 200      | 10/14/88    |
| L. | 5099445      | 3/24/92  | Stador et al.      | 364   | 715.00   | 12/26/89    |
| M. | 5101484      | 3/31/92  | Kohn               | 395   | 375      | 2/14/89     |
| N. | 5117498      | 5/26/92  | Miller et al.      | 395   | 775      | 9/19/90     |
| O. | 5121431      | 6/9/92   | Wiener             | 713   | 174      | 7/2/90      |
| P. | 5122001      | 6/10/92  | Taniguchi          | 364   | 740      | 3/23/89     |
| Q. | 5155823      | 10/13/92 | Tsue               | 395   | 400      | 4/17/89     |
| R. | 5177373      | 1/5/93   | Nakamura           | 307   | 265      | 9/27/91     |
| S. | 5197023      | 3/23/93  | Nakayama           | 364   | 740      | 10/31/91    |
| T. | 5197140      | 3/23/93  | Balmer             | 395   | 400      | 11/17/89    |
| U. | 5206940      | 4/27/93  | Murakami et al.    | 395   | 400      | 8/27/91     |
| V. | 5212662      | 5/18/93  | Cooneygher et al.  | 364   | 740      | 9/11/90     |
| W. | 5239654      | 8/24/93  | Ing-Simmons et al. | 395   | 800      | 11/17/89    |
| X. | 5276634      | 1/4/94   | Suzuki et al.      | 364   | 740      | 8/20/91     |

## FOREIGN PATENT DOCUMENTS

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|----|--------------|------|---------|-------|----------|-------------|----|
|    |              |      |         |       |          | YES         | NO |
| Y. |              |      |         |       |          |             |    |

## NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)

|    |  |  |
|----|--|--|
| Z. |  |  |
|----|--|--|

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## U.S. PATENT DOCUMENTS

|    | DOCUMENT NO.       | DATE                | NAME                         | CLASS          | SUBCLASS          | FILING DATE         |
|----|--------------------|---------------------|------------------------------|----------------|-------------------|---------------------|
| A. | <del>5282153</del> | <del>1/25/94</del>  | <del>Bartkowiak et al.</del> | <del>364</del> | <del>716</del>    | <del>4/6/93</del>   |
| B. | <del>5327543</del> | <del>7/5/94</del>   | <del>Miura et al.</del>      | <del>395</del> | <del>375</del>    | <del>4/23/90</del>  |
| C. | <del>5327566</del> | <del>7/5/94</del>   | <del>Forsyth</del>           | <del>395</del> | <del>775</del>    | <del>7/12/91</del>  |
| D. | 5375080            | 12/20/94            | Davies                       | 364            | 736.5             | 12/18/92            |
| E. | <del>5379240</del> | <del>1/3/95</del>   | <del>Byrne</del>             | <del>364</del> | <del>715.06</del> | <del>3/8/93</del>   |
| F. | 5392435            | 2/21/95             | Masui et al.                 | 395            | 725               | 9/29/93             |
| G. | 5418976            | 5/23/95             | Iida                         | 395            | 800               | 12/21/92            |
| H. | <del>5422605</del> | <del>6/6/95</del>   | <del>McIntyre et al.</del>   | <del>708</del> | <del>625</del>    | <del>10/21/92</del> |
| I. | 5432943            | 7/11/95             | Mitsubishi                   | 395            | 725               | 4/19/93             |
| J. | <del>5448703</del> | <del>8/5/95</del>   | <del>Amini et al.</del>      | <del>395</del> | <del>290</del>    | <del>5/28/93</del>  |
| K. | <del>5448706</del> | <del>9/5/95</del>   | <del>Flomig et al.</del>     | <del>395</del> | <del>421.07</del> | <del>5/13/92</del>  |
| L. | <del>5463740</del> | <del>10/31/95</del> | <del>Wertheizer et al.</del> | <del>395</del> | <del>437</del>    | <del>1/13/93</del>  |
| M. | <del>5469377</del> | <del>11/21/95</del> | <del>Amano</del>             | <del>364</del> | <del>740</del>    | <del>8/18/93</del>  |
| N. | 5471600            | 11/28/95            | Nakamoto                     | 395            | 405               | 2/22/95             |
| O. | <del>5497340</del> | <del>3/5/96</del>   | <del>Uramoto et al.</del>    | <del>364</del> | <del>745</del>    | <del>6/14/93</del>  |
| P. | <del>5499380</del> | <del>3/12/96</del>  | <del>Iwata et al.</del>      | <del>395</del> | <del>800</del>    | <del>5/18/94</del>  |
| Q. | 5504916            | 4/2/96              | Murakami et al.              | 395            | 800               | 9/28/93             |
| R. | 5517436            | 5/14/96             | Andreas et al.               | 364            | 736               | 6/7/94              |
| S. | 5525874            | 6/11/96             | Mallarapu et al.             | 318            | 254               | 1/30/95             |
| T. | <del>5548544</del> | <del>8/20/96</del>  | <del>Matheny et al.</del>    | <del>364</del> | <del>745</del>    | <del>10/14/94</del> |
| U. | 5561619            | 10/1/96             | Watanabe et al.              | 364            | 736.5             | 9/20/94             |
| V. | 5564028            | 10/8/96             | Swoboda et al.               | 395            | 375               | 1/11/94             |
| W. | 5568380            | 10/22/96            | Broadnax et al.              | 364            | 184               | 8/30/93             |

## FOREIGN PATENT DOCUMENTS

|    | DOCUMENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
|----|--------------|------|---------|-------|----------|-------------|----|
|    |              |      |         |       |          | YES         | NO |
| X. |              |      |         |       |          |             |    |

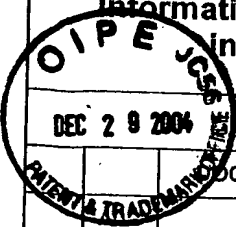
## NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)

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| Y. |  |  |
| Z. |  |  |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

|   |                    |                               |                            |                            |                             |                       |
|---|--------------------|-------------------------------|----------------------------|----------------------------|-----------------------------|-----------------------|
| PTO-1449  |                    | Application No.<br>09/870,649 |                            | Applicant(s)<br>Catherwood |                             |                       |
| <b>Information Disclosure Citation<br/>in an Application</b><br><br>  |                    | Docket Number<br>068354.1440  |                            | Group Art Unit<br>2124     | Filing Date<br>June 1, 2001 |                       |
|   |                    | <b>U.S. PATENT DOCUMENTS</b>  |                            |                            |                             |                       |
|   | DOCUMENT NO.       | DATE                          | NAME                       | CLASS                      | SUBCLASS                    | FILING DATE           |
| B.  | <del>5568412</del> | <del>10/22/96</del>           | <del>Han et al.</del>      | <del>364</del>             | <del>748</del>              | <del>11/29/94</del>   |
| C.  | <del>5596760</del> | <del>1/21/97</del>            | <del>Ueda</del>            | <del>395</del>             | <del>588</del>              | <del>12/9/92</del>    |
| D.  | <del>5600813</del> | <del>2/4/97</del>             | <del>Nakagawa et al.</del> | <del>395</del>             | <del>421.07</del>           | <del>2/9/93</del>     |
| E.  | <del>5611061</del> | <del>3/11/97</del>            | <del>Yasuda</del>          | <del>395</del>             | <del>591</del>              | <del>11/24/93</del>   |
| F.  | <del>5619711</del> | <del>4/8/97</del>             | <del>Anderson</del>        | <del>395</del>             | <del>800</del>              | <del>6/29/94</del>    |
| G.  | <del>5638524</del> | <del>6/10/97</del>            | <del>Kiuchi et al.</del>   | <del>395</del>             | <del>375</del>              | <del>5/17/95</del>    |
| H.  | <del>5642516</del> | <del>6/24/97</del>            | <del>Hedayat et al.</del>  | <del>395</del>             | <del>733</del>              | <del>10/14/94</del>   |
| I.  | <del>5649146</del> | <del>7/15/97</del>            | <del>Riou</del>            | <del>395</del>             | <del>421.07</del>           | <del>3/30/95</del>    |
| J.  | <del>5651121</del> | <del>7/22/97</del>            | <del>Davies</del>          | <del>395</del>             | <del>376</del>              | <del>12/18/92</del>   |
| K.  | <del>5657484</del> | <del>8/12/97</del>            | <del>Scarrá</del>          | <del>395</del>             | <del>561</del>              | <del>12/27/94</del>   |
| L.  | <del>5659700</del> | <del>8/19/97</del>            | <del>Chen et al.</del>     | <del>395</del>             | <del>421.07</del>           | <del>2/14/95</del>    |
| M.  | <del>5682339</del> | <del>10/28/97</del>           | <del>Tam</del>             | <del>364</del>             | <del>715.08</del>           | <del>5/26/95</del>    |
| N.  | <del>5689693</del> | <del>11/18/97</del>           | <del>White</del>           | <del>395</del>             | <del>585</del>              | <del>4/26/94</del>    |
| O.  | <del>5694350</del> | <del>12/2/97</del>            | <del>Weirich et al.</del>  | <del>364</del>             | <del>766</del>              | <del>6/30/95</del>    |
| P.  | <del>5696711</del> | <del>12/9/97</del>            | <del>Makinoni</del>        | <del>364</del>             | <del>748.03</del>           | <del>12/22/95</del>   |
| Q.  | <del>5706460</del> | <del>1/6/98</del>             | <del>Craig et al.</del>    | <del>395</del>             | <del>380</del>              | <del>3/19/91</del>    |
| R.  | <del>5706466</del> | <del>1/6/98</del>             | <del>Dockser</del>         | <del>395</del>             | <del>452</del>              | <del>1/13/95</del>    |
| S.  | <del>5715470</del> | <del>2/3/98</del>             | <del>Asano et al.</del>    | <del>395</del>             | <del>800</del>              | <del>9/27/93</del>    |
| T.  | <del>5737670</del> | <del>4/7/98</del>             | <del>Koch</del>            | <del>395</del>             | <del>872</del>              | <del>4/28/97</del>    |
| U.  | <del>5740095</del> | <del>4/14/98</del>            | <del>Parant</del>          | <del>364</del>             | <del>760</del>              | <del>7/12/95</del>    |
| V.  | <del>5740419</del> | <del>4/14/98</del>            | <del>Potter</del>          | <del>395</del>             | <del>588</del>              | <del>7/22/98</del>    |
| W.  | <del>5740451</del> | <del>4/14/98</del>            | <del>Muraki et al.</del>   | <del>395</del>             | <del>733</del>              | <del>10/28/96</del>   |
|   | <del>5748516</del> | <del>5/5/98</del>             | <del>Goddard et al.</del>  | <del>364</del>             | <del>748.03</del>           | <del>9/26/95</del>    |
| <b>FOREIGN PATENT DOCUMENTS</b>   |                    |                               |                            |                            |                             |                       |
|   | DOCUMENT NO.       | DATE                          | COUNTRY                    | CLASS                      | SUBCLASS                    | TRANSLATION<br>YES NO |
| X.  |                    |                               |                            |                            |                             |                       |
| Y.  |                    |                               |                            |                            |                             |                       |
| <b>NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>   |                    |                               |                            |                            |                             |                       |
| Z.  |                    |                               |                            |                            |                             |                       |
| EXAMINER  |                    |                               |                            | DATE CONSIDERED            |                             |                       |
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PTO-1449

Application No.

Applicant(s)

**Information Disclosure Citation  
in an Application**

09/870,649

Catherwood

Docket Number

Group Art Unit

Filing Date

068354.1440

2124

June 1, 2001

DEC 28 2000

## U.S. PATENT DOCUMENTS

|    | DOCUMENT NO.       | DATE                | NAME                         | CLASS          | SUBCLASS          | FILING DATE         |
|----|--------------------|---------------------|------------------------------|----------------|-------------------|---------------------|
|    | 5748970            | 5/5/98              | Miyaji et al.                | 395            | 733               | 4/30/96             |
| B. | <del>5764555</del> | <del>6/9/98</del>   | <del>McPherson et al.</del>  | <del>364</del> | <del>748.03</del> | <del>3/13/96</del>  |
| C. | 5765216            | 6/9/98              | Weng et al.                  | 711            | 214               | 6/17/96             |
| D. | 5765218            | 6/9/98              | Ozawa et al.                 | 711            | 219               | 3/10/95             |
| E. | <del>5774711</del> | <del>6/30/98</del>  | <del>Henry et al.</del>      | <del>395</del> | <del>591</del>    | <del>7/26/96</del>  |
| F. | <del>5778416</del> | <del>7/7/98</del>   | <del>Harrison et al.</del>   | <del>711</del> | <del>5</del>      | <del>4/3/97</del>   |
| G. | <del>5790443</del> | <del>8/4/98</del>   | <del>Shen et al.</del>       | <del>364</del> | <del>740</del>    | <del>3/19/96</del>  |
| H. | <del>5800920</del> | <del>9/15/98</del>  | <del>Gorshtein et al.</del>  | <del>364</del> | <del>740.11</del> | <del>9/24/96</del>  |
| I. | <del>5812430</del> | <del>9/22/98</del>  | <del>Hansen</del>            | <del>364</del> | <del>748.03</del> | <del>10/10/95</del> |
| J. | 5812868            | 9/22/98             | Moyer et al.                 | 395            | 800.23            | 9/16/96             |
| K. | <del>5825730</del> | <del>10/20/98</del> | <del>Nishida et al.</del>    | <del>369</del> | <del>44.32</del>  | <del>3/8/96</del>   |
| L. | 5826072            | 10/20/98            | Knapp et al.                 | 395            | 567               | 11/13/95            |
| M. | <del>5826096</del> | <del>10/20/98</del> | <del>Baxter</del>            | <del>395</del> | <del>800.24</del> | <del>5/19/95</del>  |
| N. | <del>5828875</del> | <del>10/27/98</del> | <del>Halvarsson et al.</del> | <del>395</del> | <del>588</del>    | <del>5/29/97</del>  |
| O. | <del>5862065</del> | <del>1/19/99</del>  | <del>Muthusamy</del>         | <del>364</del> | <del>736.5</del>  | <del>2/13/97</del>  |
| P. | 5867726            | 2/2/99              | Ohsuga et al.                | 395            | 800.32            | 4/10/96             |
| Q. | 5875342            | 2/23/99             | Temple                       | 395            | 733               | 6/3/97              |
| R. | <del>5880984</del> | <del>3/9/99</del>   | <del>Burchfiel et al.</del>  | <del>364</del> | <del>748.07</del> | <del>1/13/97</del>  |
| S. | <del>5892097</del> | <del>4/6/99</del>   | <del>Brakefield</del>        | <del>364</del> | <del>748.02</del> | <del>12/19/95</del> |
| T. | <del>5892600</del> | <del>4/6/99</del>   | <del>Duncan et al.</del>     | <del>364</del> | <del>760.4</del>  | <del>9/16/97</del>  |
| U. | <del>5894428</del> | <del>4/13/99</del>  | <del>Harada</del>            | <del>364</del> | <del>724.03</del> | <del>7/28/97</del>  |
| V. | 5900683            | 5/4/99              | Rinehart et al.              | 307            | 126               | 12/23/97            |
| W. | <del>5909385</del> | <del>6/1/99</del>   | <del>Nishiyama et al.</del>  | <del>364</del> | <del>760.03</del> | <del>4/1/97</del>   |

## FOREIGN PATENT DOCUMENTS

|    | DOCUMENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
|----|--------------|------|---------|-------|----------|-------------|----|
|    |              |      |         |       |          | YES         | NO |
| X. |              |      |         |       |          |             |    |
| Y. |              |      |         |       |          |             |    |

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PTO-1449

Application No.

Applicant(s)

**Information Disclosure Citation  
in an Application**

09/870,649

Catherwood

Docket Number

Group Art Unit

Filing Date

068354.1440

2124

June 1, 2001

DEC 29 2004

## U.S. PATENT DOCUMENTS

|    | DOCUMENT NO.       | DATE                | NAME                        | CLASS          | SUBCLASS          | FILING DATE         |
|----|--------------------|---------------------|-----------------------------|----------------|-------------------|---------------------|
|    | <del>5917741</del> | <del>6/29/99</del>  | <del>Ng</del>               | <del>364</del> | <del>748.03</del> | <del>8/29/96</del>  |
| B. | 5918252            | 6/29/99             | Chen et al.                 | 711            | 217               | 11/25/96            |
| C. | <del>5930159</del> | <del>7/27/99</del>  | <del>Wong</del>             | <del>364</del> | <del>745.01</del> | <del>10/17/96</del> |
| D. | <del>5930503</del> | <del>7/27/99</del>  | <del>Drees</del>            | <del>395</del> | <del>651</del>    | <del>12/29/95</del> |
| E. | 5936870            | 8/10/99             | Im, Jin Hyeock              | 364            | 745.03            | 8/15/97             |
| F. | 5937199            | 8/10/99             | Temple                      | 395            | 335               | 6/3/97              |
| G. | <del>5938759</del> | <del>8/17/99</del>  | <del>Kamijo</del>           | <del>712</del> | <del>209</del>    | <del>12/10/97</del> |
| H. | <del>5941940</del> | <del>8/24/99</del>  | <del>Prasad et al.</del>    | <del>708</del> | <del>523</del>    | <del>6/30/97</del>  |
| I. | <del>5943249</del> | <del>8/24/99</del>  | <del>Handlogten</del>       | <del>364</del> | <del>748.02</del> | <del>4/25/97</del>  |
| J. | 5944816            | 8/31/99             | Dutton et al.               | 712            | 215               | 5/17/96             |
| K. | <del>5951627</del> | <del>9/14/99</del>  | <del>Klamilev et al.</del>  | <del>708</del> | <del>404</del>    | <del>11/14/96</del> |
| L. | <del>5951679</del> | <del>9/14/99</del>  | <del>Anderson, et al.</del> | <del>712</del> | <del>241</del>    | <del>4/26/95</del>  |
| M. | 5978825            | 11/2/99             | Divine et al.               | 708            | 525               | 11/14/97            |
| N. | 5983333            | 11/9/99             | Kolagotia et al.            | 711            | 219               | 8/27/97             |
| O. | <del>5991787</del> | <del>11/23/99</del> | <del>Abel et al.</del>      | <del>708</del> | <del>400</del>    | <del>12/31/97</del> |
| P. | 5991868            | 11/23/99            | Kamiyama et al.             | 712            | 32                | 5/19/94             |
| Q. | <del>5996067</del> | <del>11/30/99</del> | <del>White</del>            | <del>712</del> | <del>224</del>    | <del>10/26/97</del> |
| R. | <del>6009454</del> | <del>12/28/99</del> | <del>Dummernuth</del>       | <del>709</del> | <del>108</del>    | <del>11/10/97</del> |
| S. | <del>6014723</del> | <del>1/11/00</del>  | <del>Tremblay et al.</del>  | <del>711</del> | <del>1</del>      | <del>1/23/97</del>  |
| T. | 6018757            | 1/25/00             | Wong                        | 708            | 525               | 8/8/96              |
| U. | <del>6020489</del> | <del>2/15/00</del>  | <del>Wacht et al.</del>     | <del>712</del> | <del>241</del>    | <del>4/26/95</del>  |
| V. | <del>6044392</del> | <del>3/28/00</del>  | <del>Anderson et al.</del>  | <del>708</del> | <del>551</del>    | <del>8/4/97</del>   |
| W. | <del>6044434</del> | <del>3/28/00</del>  | <del>Oliver</del>           | <del>711</del> | <del>110</del>    | <del>9/24/97</del>  |

## FOREIGN PATENT DOCUMENTS

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|----|--------------|------|---------|-------|----------|-------------|----|
|    |              |      |         |       |          | YES         | NO |
| X. |              |      |         |       |          |             |    |
| Y. |              |      |         |       |          |             |    |

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|    | DOCUMENT NO.       | DATE                | NAME                             | CLASS          | SUBCLASS       | FILING DATE         |
|----|--------------------|---------------------|----------------------------------|----------------|----------------|---------------------|
|    | 6049858            | 4/11/00             | Kolagotia et al.                 | 711            | 217            | 8/27/97             |
| B. | <del>6058400</del> | <del>5/2/00</del>   | <del>Kozaki et al.</del>         | <del>708</del> | <del>409</del> | <del>8/5/97</del>   |
| C. | <del>6058410</del> | <del>5/2/00</del>   | <del>Sharangpani</del>           | <del>708</del> | <del>551</del> | <del>12/2/96</del>  |
| D. | <del>6058464</del> | <del>5/2/00</del>   | <del>Taylor</del>                | <del>711</del> | <del>217</del> | <del>7/0/96</del>   |
| E. | 6061711            | 5/9/00              | Song et al.                      | 709            | 108            | 8/19/96             |
| F. | <del>6061780</del> | <del>5/9/00</del>   | <del>Shippy et al.</del>         | <del>712</del> | <del>204</del> | <del>1/23/98</del>  |
| G. | 6061783            | 5/9/00              | Harriman                         | 712            | 224            | 11/13/96            |
| H. | <del>6076154</del> | <del>6/13/00</del>  | <del>Van Eijndhoven et al.</del> | <del>712</del> | <del>24</del>  | <del>1/16/98</del>  |
| I. | 6084880            | 7/4/00              | Balley et al.                    | 370            | 395            | 6/30/97             |
| J. | <del>6101521</del> | <del>8/8/00</del>   | <del>Kosiec</del>                | <del>708</del> | <del>550</del> | <del>3/25/98</del>  |
| K. | 6101599            | 8/8/00              | Wright et al.                    | 712            | 228            | 6/29/98             |
| L. | <del>6115732</del> | <del>9/5/00</del>   | <del>Oberman et al.</del>        | <del>708</del> | <del>625</del> | <del>5/8/98</del>   |
| M. | <del>6128728</del> | <del>10/9/00</del>  | <del>Dowling</del>               | <del>712</del> | <del>228</del> | <del>12/12/97</del> |
| N. | <del>6134574</del> | <del>10/17/00</del> | <del>Oberman et al.</del>        | <del>708</del> | <del>551</del> | <del>5/8/98</del>   |
| O. | 6144980            | 11/7/00             | Oberman                          | 708            | 627            | 1/28/98             |
| P. | <del>6145049</del> | <del>11/7/00</del>  | <del>Wong</del>                  | <del>710</del> | <del>267</del> | <del>12/29/97</del> |
| Q. | 6181151            | 1/30/01             | Wasson                           | 324            | 765            | 10/28/98            |
| R. | 6205467            | 3/20/01             | Lambrecht et al.                 | 709            | 108            | 11/14/95            |
| S. | 6209086            | 3/27/01             | Chi et al.                       | 712            | 244            | 11/10/98            |
| T. | 6243786            | 6/5/01              | Huang et al.                     | 710            | 262            | 12/23/98            |
| U. | 6243804            | 6/5/01              | Cheng                            | 712            | 228            | 7/22/98             |
| V. | 6260162            | 7/10/01             | Typaldos et al.                  | 714            | 55             | 10/31/98            |
| W. | 6292866            | 9/18/01             | Zaiki et al.                     | 710            | 264            | 3/30/99             |

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|----|--------------|------|---------|-------|----------|-------------|----|
|    |              |      |         |       |          | YES         | NO |
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PTO-1449

Application No.

Applicant(s)

09/870,649

Catherwood

Docket Number

Group Art Unit

Filing Date

068354.1440

2124

June 1, 2001

**Information Disclosure Citation  
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## U.S. PATENT DOCUMENTS

|    | DOCUMENT NO. | DATE     | NAME               | CLASS | SUBCLASS | FILING DATE |
|----|--------------|----------|--------------------|-------|----------|-------------|
| A. | 6295574      | 9/25/01  | MacDonald          | 710   | 261      | 1/20/00     |
| B. | 6315200      | 11/13/01 | Silverbrook et al. | 235   | 454      | 7/10/98     |
| C. | 6356970      | 3/12/02  | Killian et al.     | 710   | 269      | 5/28/99     |
| D. | 6377619      | 4/23/02  | Denk et al.        | 375   | 232      | 9/26/97     |
| E. | 6397318      | 5/28/02  | Peh                | 711   | 220      | 4/2/98      |
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| U. |              |          |                    |       |          |             |
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## FOREIGN PATENT DOCUMENTS

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